

1) Family number: 28160734 (US2002011215A)

Title:

PLASMA TREATMENT APPARATUS AND METHOD OF MANUFACTURING OPTICAL PARTS USING THE SAME

Abstract:

Source: US2002011215A A plasma treatment apparatus for treating a surface of an object of treatment comprises a pressure reducible container, a gas supply means for supplying gas into the container for plasma excitation, an evacuation means for evacuating the inside of the container and a microwave supply means for supplying a microwave into the container. The surface of said microwave supply means located opposite to said object of treatment is a non-planar surface. A film coat showing an excellent intra-surface uniformity and practically free from pin holes and local defects can be formed by means of such an apparatus

International class (IPC): C23C16/50 C23C16/51 C23C16/511 G02B1/10

H01J37/32 H05H1/46 (Advanced/Invention);

C23C16/44 (Advanced/Non-invention);

C23C16/50 G02B1/10 H01J37/32 H05H1/46 (Core/Invention);

C23C16/44 (Core/Non-invention)



















International class (IPC): B05D5/06 C03C17/245 C23C16/40 C23C16/50 G02B1/10 H01L21/3065 H05H1/46

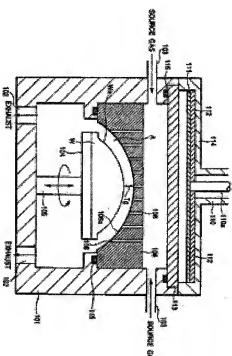
European class: C23C16/45SK2 C23C16/511 H01J37/32H3B

US class: 118/723 118/723 MW 118/723MW 118/723MW 156/345 427/162 427/163.4 427/167 427/255.37 427/575 427/579

Family:

Family Explorer

Publication number	Publication date	Application number	Application date	Links
JP11172446 A2	19990629	JP19970343086	19971212	  
JP11172447 A2	19990629	JP19970343087	19971212	  
JP11176593 A2	19990702	JP19970343085	19971212	  
US2002011215 AA	20020131	US19980209496	19981211	  
US2003203125 AA	20031030	US20030449106	20030602	  
US6929830 BB	20050816	US20030449106	20030602	  



Priority: JP19970343085 19971212 JP19970343086 19971212
US20030449106 20030602 US19980209496 19981211

Cited documents:

WO9833362, US6854309, US6215806, US6158383, US6001429, US5976308, US5923693, US5874706, US5824158, US5716451, US5698036, US5643365, US5628869, US5580385, US5556521, US5554255, US5522934, US5439524, US5346578, US5234526, US5154943, US5079033, US5034086, US5017404, US4985113, US4971651, US4947085, US4438368, US4430138, US2005045589, JP6111297, JP6216047, JP5022025, JP4048805, JP2233367, JP1184923, TEI GOUISHU ; TANAKA NOBUYOSHI ; OHMI TADAHIRO ; HIRAYAMA MASAKI ; OHMI TADAHIRO ; CANON KK

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